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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/217,873 12/21/98 RAPAICH

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EXAMINER

WM01/0416

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ART UNIT

PAPER NUMBER

2614

DATE MAILED:

04/16/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.  
09/217,873

Applicant(s)  
Mark Rapaich

Examiner  
Paulos Natnael

Group Art Unit  
2614

☒ Responsive to communication(s) filed on Mar 5, 2001

☐ This action is FINAL.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-11 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-11 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 2614

### **DETAILED ACTION**

1. After thorough review of Applicant's Brief on Appeal, the Examiner has withdrawn the final rejection of Aug. 16, 2000. Examiner regrets the inconvenience.

#### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

3. Claims **1-3,5-8, 10** are rejected under 35 U.S.C. 102(e) as being anticipated by Aleksic et al., U.S. Pat. No. 6,020,921.

Considering claim **1**, Aleksic discloses all claimed subject matter, note;

A) the claimed video source capable of providing a digital YUV video signal is met by Frame buffer 1 and VIDEO IN (FIG 2), which "apply a YUV signal to a gamma correction circuit 3...." (col 2, lines 64-65)

B) the claimed video output capable of connecting to a video display device is met by the output of D/A 9 to the CRT 11 (FIG.2).

Art Unit: 2614

C) the claimed digital processor employing a corrective algorithm that applies gamma correction to the digital YUV signal provided by the video source and provides a corrected signal to the video output is met by gamma correction circuit 3 (FIG.2). (See also disclosure of a software-implemented embodiment on col.5, lines 57-67 to col.6, lines 1-35)

Considering claim 2, the claimed wherein the digital processor further employs a corrective algorithm that corrects at least one of color saturation correction, tint correction, brightness correction and contrast correction is **inherent, because all** personal computers and other types of displays have brightness correction, for example.

Considering claim 3, the claimed software module for user configuration of the digital processor that corrects the digital YUV signal;

Regarding claim 3, see rejection of claim 1( C ).

Considering claim 5, the claimed wherein the digital YUV video signal is encoded with a correction factor that is compensated for in applying the corrective algorithm to the digital YUV signal is met by the disclosure "the gamma correction value 0.45, 1/1.8 and 1/1.4". (col. 5, lines 65-66; See also discussion on cols. 3-5)

Considering claim 6, Aleksic discloses all claimed subject matter, note;

Art Unit: 2614

a) the claimed process of receiving a YUV digital video signal is met by LIMIT Y 5 (FIG 2), which receives the YUV signal applied by VIDEO IN and FRAME BUFFER 1 that “apply a YUV signal to a gamma correction circuit 3....” (col 2, lines 64-65)

b) the claimed process of applying gamma correction to the digital YUV signal within a personal computer is met by the gamma correction circuit 3 (FIG.2). (See also disclosure of an software-implemented embodiment on col.5, lines 57-67 to col.6, lines 1-35)

c) the claimed process of providing a corrected digital YUV signal to an output for connection to a display device is met by the output of gamma correction 3 to conversion circuit 9 (FIG.2).

Considering claim 7, see rejection of claim 2.

Considering claim 8, see rejection of claim 3.

Considering claim 10, see rejection of claim 5.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2614

5. Claims 4, 9, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aleksic et al., U.S. Pat. No. 6,020,921.

Considering claim 4, Aleksic discloses all claimed subject matter, except for;

a) the claimed wherein the video sources comprise multiple sources selected from the group consisting of MPEG, NTSC, CVD, CD.

Regarding a), Aleksic discloses a gamma correction circuit for **multimedia**. Therefore, it would have been obvious to the skilled in the art to readily recognize the teachings of Aleksic, because the multimedia reference includes the claimed sources of video such as the MPEG standard, NTSC, DVD, and CD.

Considering claim 9, see rejection of claim 4.

Considering claim 11, Aleksic et al. disclose the following claimed subject matter, note

B) the claimed video source capable of providing a digital YUV video signal is met by Frame buffer 1 and VIDEO IN (FIG 2), which “apply a YUV signal to a gamma correction circuit 3....” (col 2, lines 64-65)

C) the claimed video output capable of connecting to a video display device is met by the output of D/A 9 to the CRT 11 (FIG.2).

D) the claimed digital processor employing a corrective algorithm that applies gamma correction to the digital YUV signal provided by the video source and provides a corrected signal to the

Art Unit: 2614

video output is met by gamma correction circuit 3 (FIG.2). (See also disclosure of a software-implemented embodiment on col.5, lines 57-67 to col.6, lines 1-35)

except for;

A) the claimed personal computer system comprising a processor, a bus, a main memory, a system controller, and graphics controller.

Regarding a), Aleksic et al. does not disclose the listed items. However these items are well known to be inherently present in any personal computer (PC) systems. A PC would not function as a computer without a processor, memory or graphics controller. Therefore, the Examiner is taking Official Notice in that a personal computer system is well known in the art to comprise, inter alia, a processor, a bus, a main memory, a system controller, and graphics controller.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Paulos Natnael** whose telephone number is **(703)305-0019**. The examiner can normally be reached on **Monday through Thursday from 7:00 a. m. to 4:00 p.m.(Est)** The examiner can also be reached on alternate **Fridays**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Reinhard J. Eisenzopf**, can be reached at **(703) 305-4711**.

Art Unit: 2614

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)305-4700.

*Any response to this action should be mailed to:*

Commissioner of Patents and Trademarks

Washington, D.C. 20231

*or faxed to:*

(703) 308-6306, (for formal communications intended for entry)

*or:*

(703) 308-6296 (for informal or draft communications, please label "PROPOSED"

OR "DRAFT").

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,  
Arlington, V.A. Sixth Floor (Receptionist).

*Paulos M. Natnael*

April 10, 2001

*PNW*

*Reinhard J. Eisenzopf*  
REINHARD J. EISENZOPF  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600  
4-12-01